OWNER'S MANUAL

Palsonic

81CM WIDE SCREEN LCD TV/MONITOR

MODEL: TFTV812A

N111

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Important Safety Precautions

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your TV product, please read the following precautions carefully before using the product.

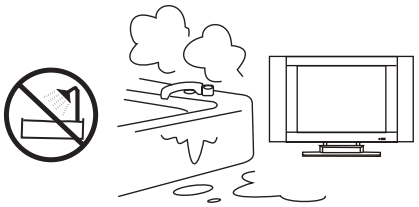
1. Read these instructions---All operating instructions must be read and understood before the product is operated.

2. Keep these instructions---These safety and operating instructions must be kept in a safe place for future reference.

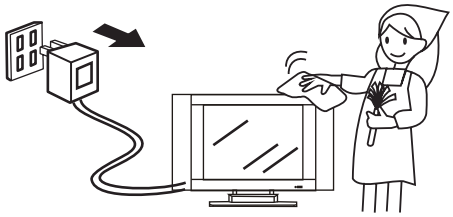
3. Heed all warnings---All warnings on the product and in the instructions must be observed closely.

4. Follow all instructions---All operating instructions must be followed.

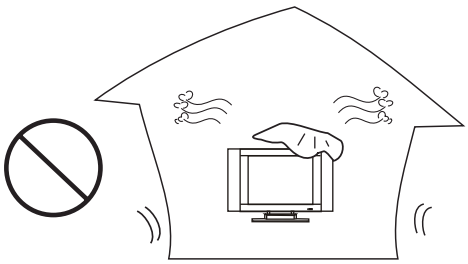
5. Do not use this apparatus near water---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.



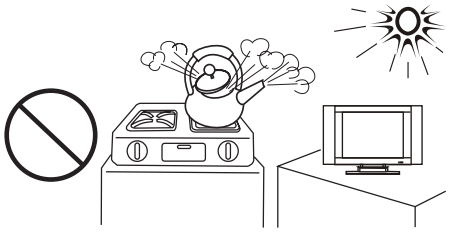
6. Clean only with dry cloth---Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



7. Ventilation---Do not block any ventilation openings. Install in accordance with the manufacturer instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.



8.Heat sources---Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



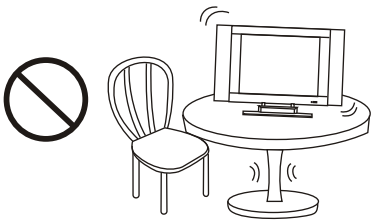
9.Grounding or Polarization---Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10.Power cord protection---Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
NOTE: where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

11.Attachments---Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

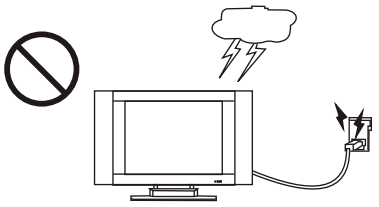
Important Safety Precautions (Continued)

12. Stand---Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting inserious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.



13. Move carefully---When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.
Never attempt to move the TV unless the AC power cord has been disconnected.

14. Lightning---Unplug this apparatus during lightning storms or when unused for long periods of time.
For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.



15. Servicing---Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

16. Replacement parts---In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

17.Overloading---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

18.Entering of objects and liquids---Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

19.Damage requiring service---If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
a. When the power cord or plug is damaged.
b. When a liquid is spilled on the product or when objects have fallen into the product.
c. When the product has been exposed to rain or water.
d. When the product does not operate properly as described in the operating instructions.
Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
e. If the product has been dropped or the cabinet has been damaged in any way.
f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

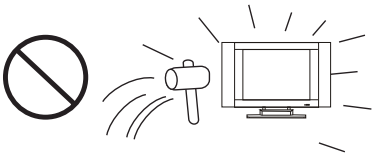
20.Safety checks---Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

21.Wall or ceiling mounting---When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.

Important Safety Precautions (Continued)

22. Power source---This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock.

23.Panel protection---The display panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the display panel breaks.



24.Pixel defect---The display panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

WARNING: For continued safety, apparatus with class I construction shall be connected to a mains socket outlet with a protective earthing connection.

Important Notice

About Temperature

Do not use in hot and cold rooms (locations)

- When the unit is used in rooms (locations) with low temperature, the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the screen to malfunction.
- Storage temperature: 0°C to +50°C
- Working temperature: +5°C to +40°C

About After-Image

The extended use of fixed image program material can cause a permanent after-image on the screen.

This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible screen deterioration can be limited by observing the following steps:

A. Reduce the brightness/contrast setting to a minimum viewing level.

B. Do not display the fixed image for extended periods of time.

C. Turn the power off when not in actual use.

Important Information Regarding Use of Video Games, Computers, Captions or Other Fixed Image Displays.

- Do not allow a still picture to be displayed for an extended period, as this can cause a permanent after-image to remain on the screen.

  Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.

CAUTIONS:

- The permanent after-image on the screen resulting from fixed image use is not an operating defect and as such is not covered by the warranty.
- This product is not designed to display fixed images for extended periods of time.

Cleaning and Maintenance

To clean this unit, wipe with a soft, dry cloth.

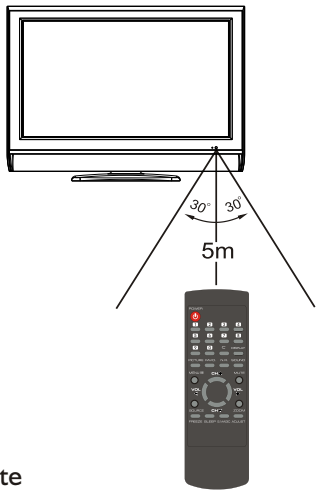
If the surfaces are extremely dirty, use a soft cloth dipped in a soap and water solution or a weak detergent solution.

- Use eyeglass cleaner to remove stubborn dirt from the screen.
- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using a chemically treated cloth, read the instructions that came with the cloth carefully.

Preparations

Using the Remote Control

■ Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.



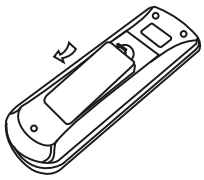
Cautions regarding use of remote control

■ Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.
■ Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
■ The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or the TV set, or operate the remote control closer to the remote sensor window.

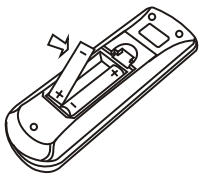
Installing the Batteries

If the remote control fails to operate the TV functions, replace the batteries in the remote control.

1 Open the battery cover.

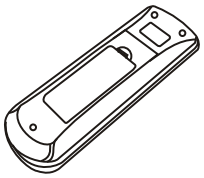


2 Insert two size-AA batteries.



■ (Place the batteries with their terminals corresponding to the (+) and (–) indications in the battery compartment.)

3 Replace the cover.



Precaution on battery use

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

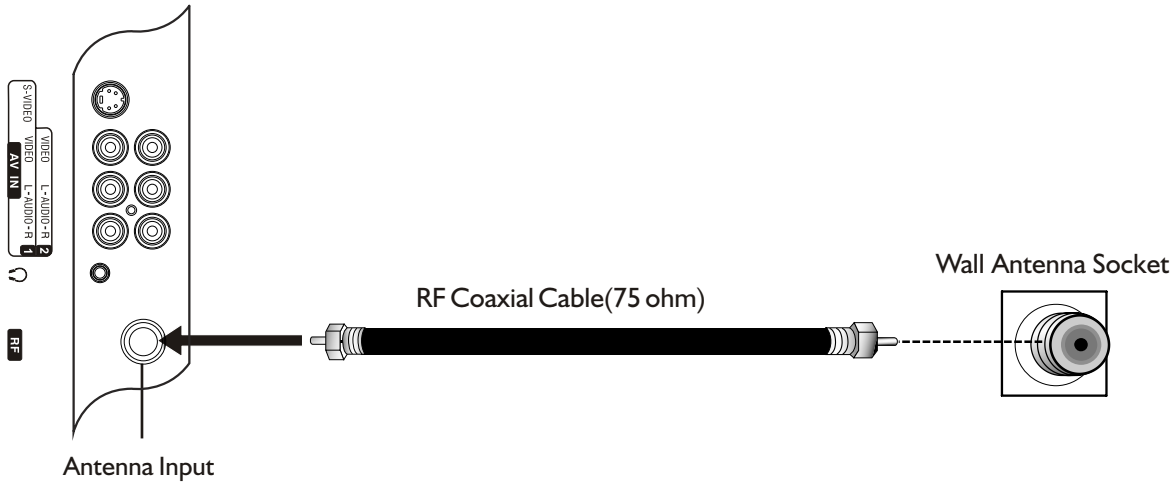
■ Place batteries with their terminals corresponding to the (+) and (–) indications.
■ Different types of batteries have different characteristics. Do not mix batteries of different types.
■ Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
■ Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.
■ If the remote control is not used for an extended period of time, remove the batteries from the remote control.
■ The batteries (battery pack of batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Preparations (Continued)

Antenna Connection

INSTALL the unit in a room where direct light will not fall upon the screen. Total darkness or a reflection on the picture screen may cause eyestrain. Soft and indirect lighting is recommended for comfortable viewing.

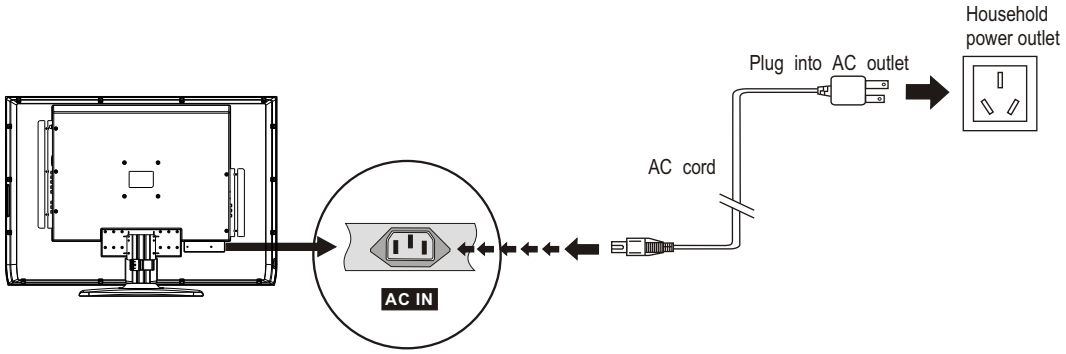
Optimum reception of colour requires a good signal and will generally mean that an outdoor antenna must be used. The exact type and position of the antenna will depend upon your particular area.



Note

- *It is recommended that the 75-ohm coaxial cable be used to eliminate interference and noise which may occur due to radio wave conditions.*
- *The antenna cable should not be bundled with the power cord and the like.*
- *If the antenna is not installed properly, contact your dealer for assistance.*

Power Connection



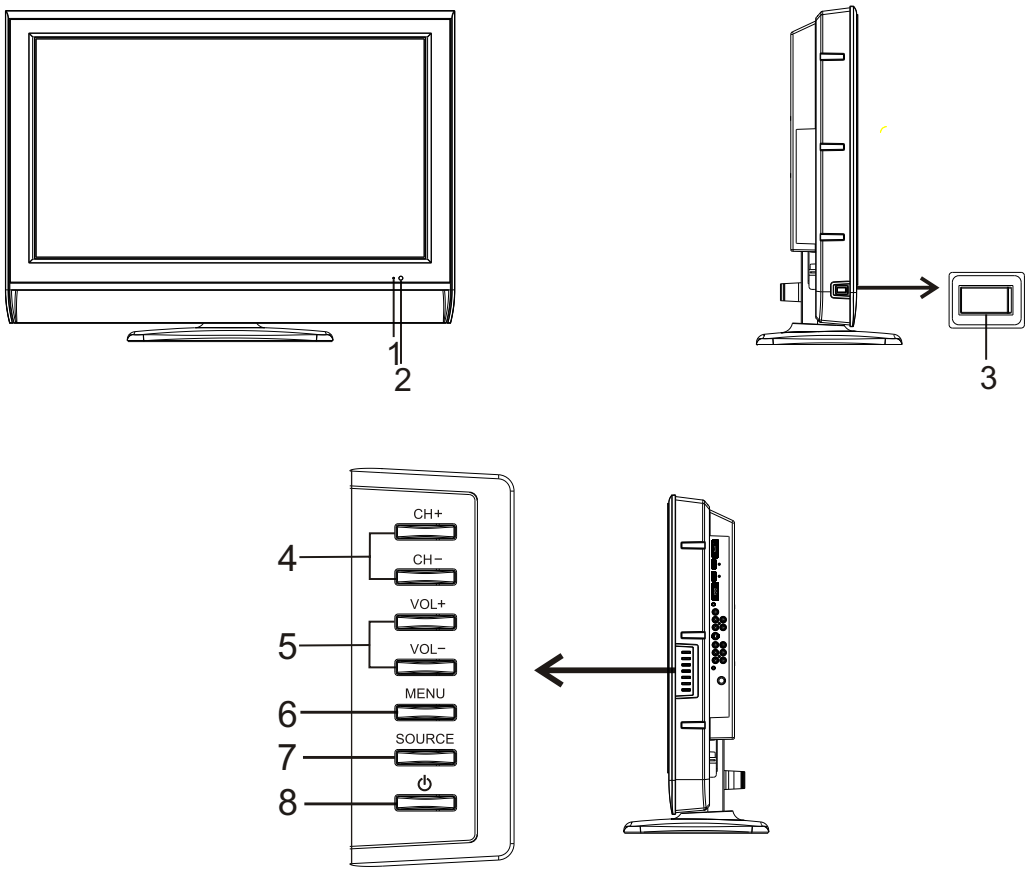
1. Connecting the female plug to the AC socket on the unit.
2. Connecting the male plug to the wall outlet as illustrated.

Note

- *This product should be operated only from the type of power source indicated on the marking label.*
- *Always unplug the AC cord from power outlet when not using for a long period of time.*
- *This illustration is for reference only. The AC plug may be different on different models.*

Identification of Controls

Main Unit (front view/side view)



1. Power Indicator

2. Remote Sensor

3. Power Switch

4. **CH+/-**

Press these two buttons to directly change the TV channel;

In menu operations, these buttons serve as up/down buttons.

5. **VOL+/-**

Press the **VOL+** or **VOL-** button to directly increase or decrease the sound volume level;

In menu operations, these buttons serve as right/left buttons.

6. MENU

Press this button to access the menu main page.

7. SOURCE

To access input source menu.

8. POWER ⏻

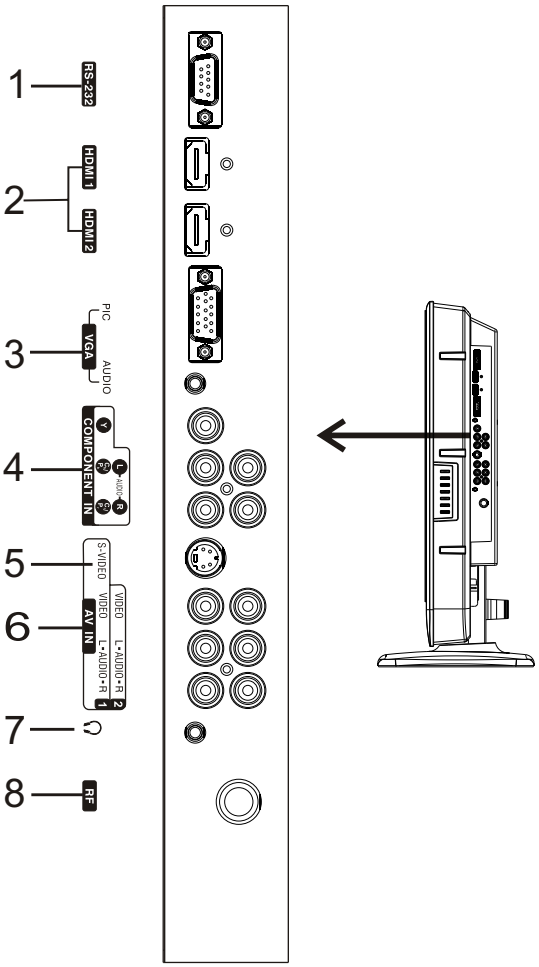
Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY.

Note

*Functions of **CH+/-**, **VOL+/-**, **MENU**, **SOURCE** and **POWER** ⏻ are also provided to the remote control. This operation manual provides a description based on operating functions with the remote control.*

Identification of Controls (Continued)

Main Unit (side view)



1 **RS – 232 terminal:** For professional personnel only. The user should not use this terminal.

2 **HDMI input 1/2:** HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box and DVD player. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

3 **VGA PIC(Video)/AUDIO input:** Connects to a PC or other Analog RGB devices such as Video Conferencing.

4 **COMPONENT INPUT:** Connects to your DVD player.
Component video provides better picture quality than the S-VIDEO or the composite video connections.

5 **S-VIDEO input:** Connects to the S-VIDEO output jack of your VCR or other video equipment that has S-VIDEO.
S-VIDEO provides better picture quality than the composite video connection.

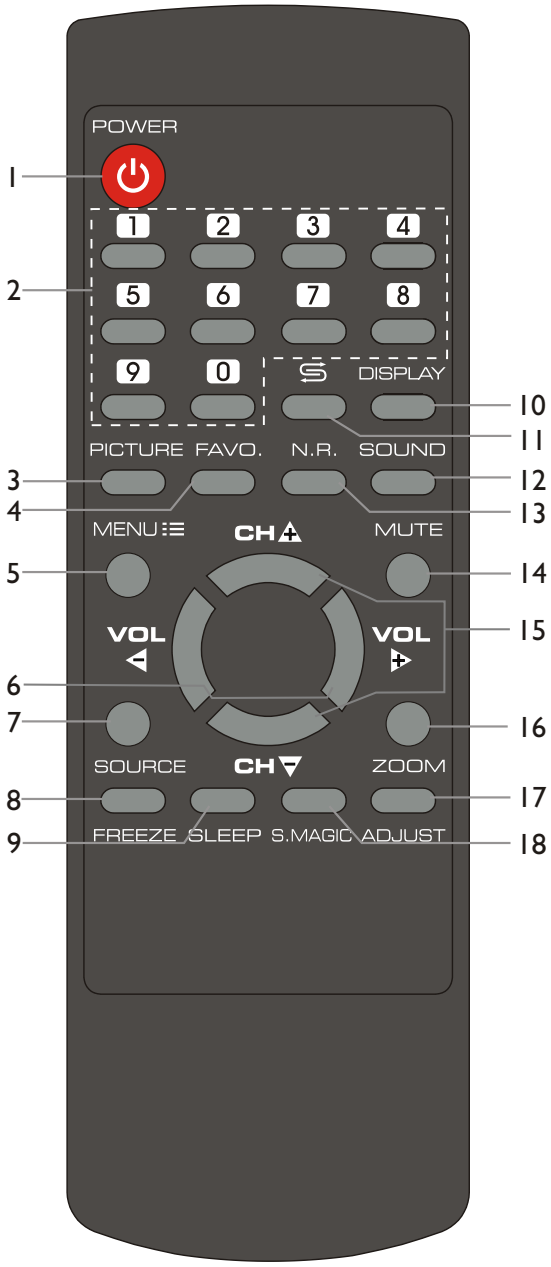
6 **AV INPUT 1/2:** Connects to the composite video and audio output jacks on your VCR or other video device.

7 **Headphones jack:** Connects to your headphones. If your headphones do not match the jack, use a suitable plug adaptor (not supplied).

8 **RF input:** Connects to your cable system or outdoor antenna.

Identification of Controls (Continued)

Remote Control Unit



1 **POWER:** Switches the TV power on or Standby.

2 **0 – 9 number buttons:** Press to enter channel numbers or input password.

3 **PICTURE:** Selects picture mode.

4 **FAVO.:** To cycle among all favorite channels.

5 **MENU:** Displays the main menu screen.

6 **VOL-/+(◂ / ▸):** Decreases or increases the volume. Press to move left or right in the menu or to adjust a menu setting.

7 **SOURCE:** Displays input source menu.

8 **FREEZE:** To freeze the current picture.

9 **SLEEP:** Sets the sleep timer.

10 **DISPLAY:** Displays the current channel status or signal information.

11 **PREVIOUS button** : Returns to the previous channel.

12 **SOUND:** Selects sound mode.

13 **N.R.:** To turn on/off noise reduce function.

14 **MUTE:** Mutes the sound.

15 **CH+/-(▲ / ▼):** Changes channel up and down. Press to move up or down in the menu.

16 **ZOOM:** Selects the screen size.

17 **ADJUST:** Adjusts the picture automatically in PC mode.

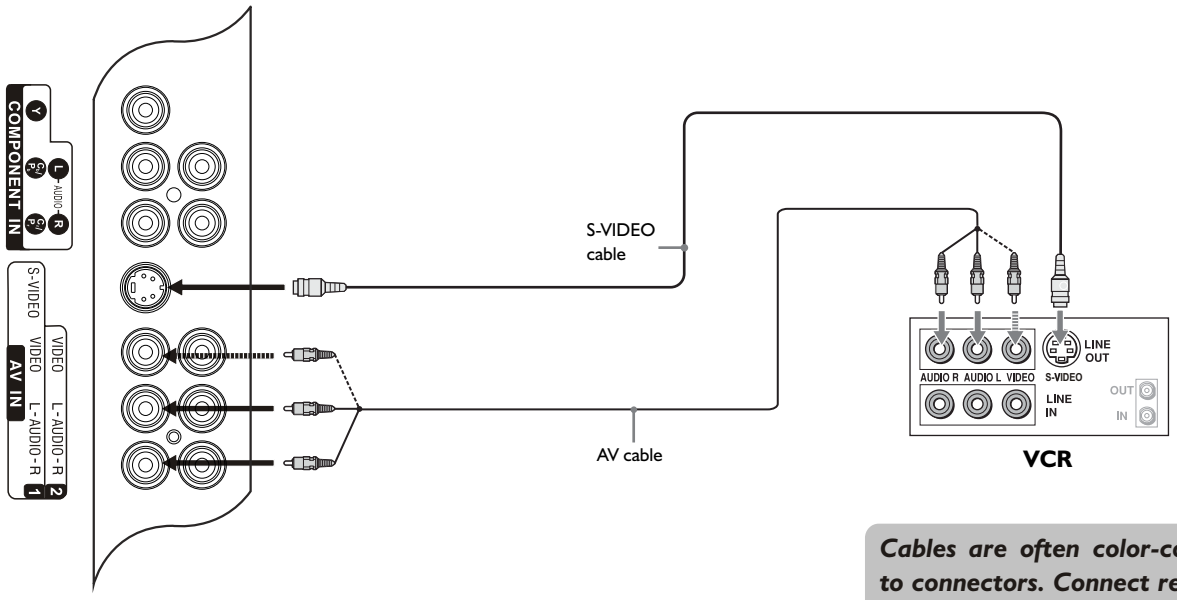
18 **S.MAGIC:** To turn on/off magic picture demo function, to demo magic picture effect.

Connections

Cautions Before Connecting

- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or colour problems. Make sure that all connectors are securely inserted into their terminals.
- Refer to the operating manual of the external device as well.
- When connecting an external device, turn the power off to avoid any issues.

Connecting a VCR



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

Note: *For better video, you can use the S-video terminal if your source supports it.*

To play VCR

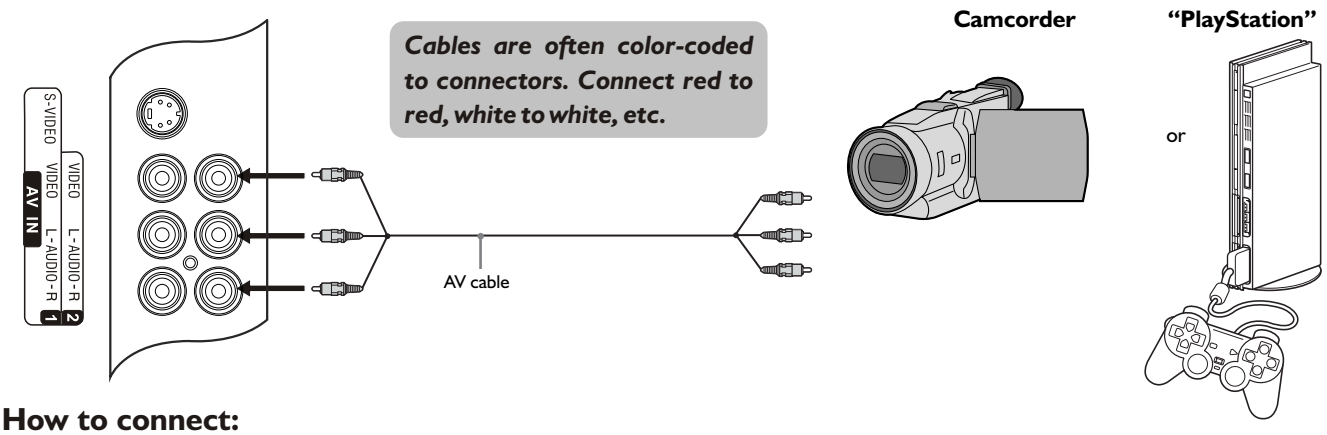
1. Turn on your TV, then press **SOURCE** button. The **SOURCE** menu opens.
2. Press ▲ or ▼ to select **AV1** (or **S-Video** if using S-VIDEO terminal), then press ▶ to confirm.
3. Turn on your VCR , insert a videotape and press the **Play** button.

Note

The S-VIDEO terminal share the same audio jacks with VIDEO1.

Connections (Continued)

Connecting a Camcorder



How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

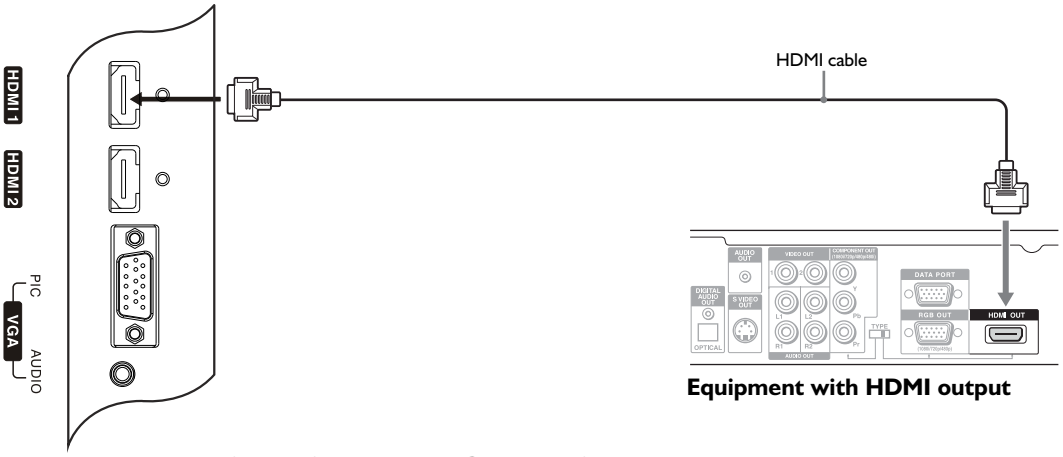
To playback Camcorder

1. Turn on your TV, then press **SOURCE** button. The **SOURCE** menu opens.
2. Press ▲ or ▼ to select **AV2**, then press ▶ to confirm.
3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder user manual.)
4. Insert the tape into the camcorder and press **Play** button.

Note

The operations of the camcorder may be different and is dependant on your model. Please read the user manual of your camcorder to confirm operation.

Connecting an HDMI device



How to connect a device using HDMI Connection:

Connect the HDMI cable between the HDMI interface on the unit and HDMI output on the device.

To play from the device using HDMI:

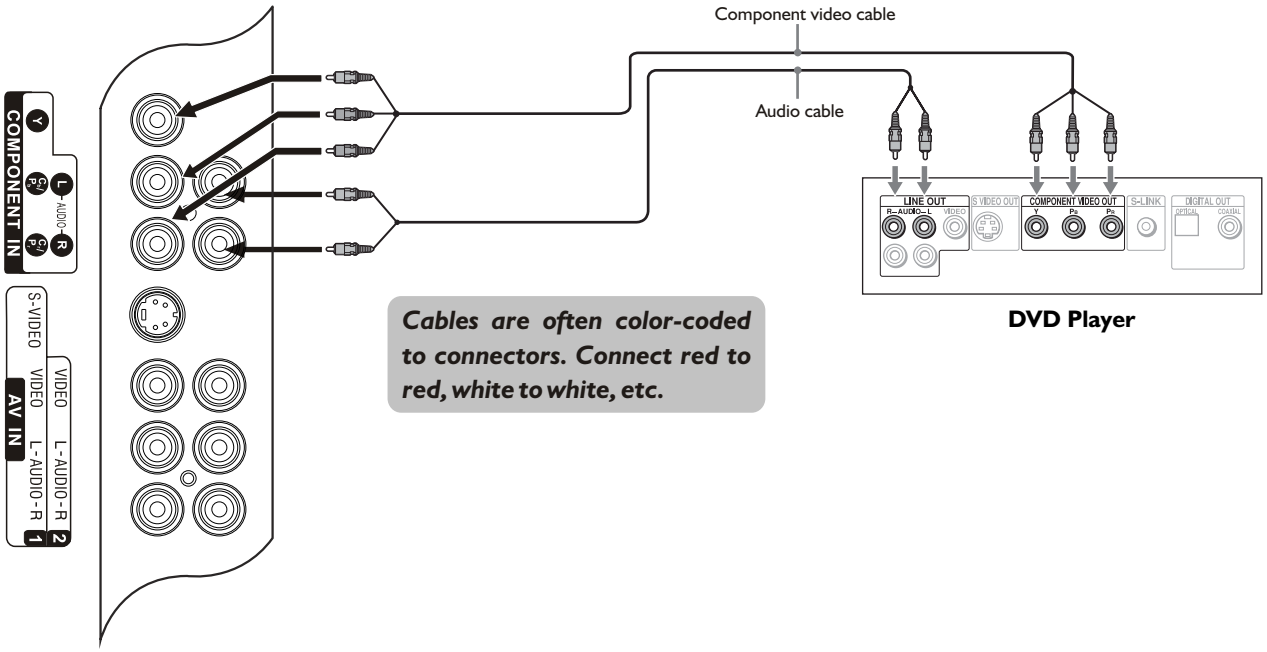
1. Turn on your TV, then press **SOURCE** button. The **SOURCE** menu opens.
2. Press ▲ or ▼ to select **HDMI 1**, then press ▶ to confirm.
3. Turn on your device and set it to the correct mode. See the device's user guide for more information.

Note

- *If HDMI 2 interface is used, please select **HDMI2** in the **SOURCE** menu.*
- *If the external device has DVI output only, use a DVI to HDMI adapter cable to connect to the HDMI terminal. Connect the audio cable to the VGA AUDIO IN jack on the TV side.*

Connections (Continued)

Connecting Component Video



Cables are often color-coded to connectors. Connect red to red, white to white, etc.

DVD Player

To connect a device using component video:

Connect the Component Video cable between the Y, Cb/Pb, Cr/Pr input jacks on the unit and Y, Cb/Pb, Cr/Pr output jacks on the device .

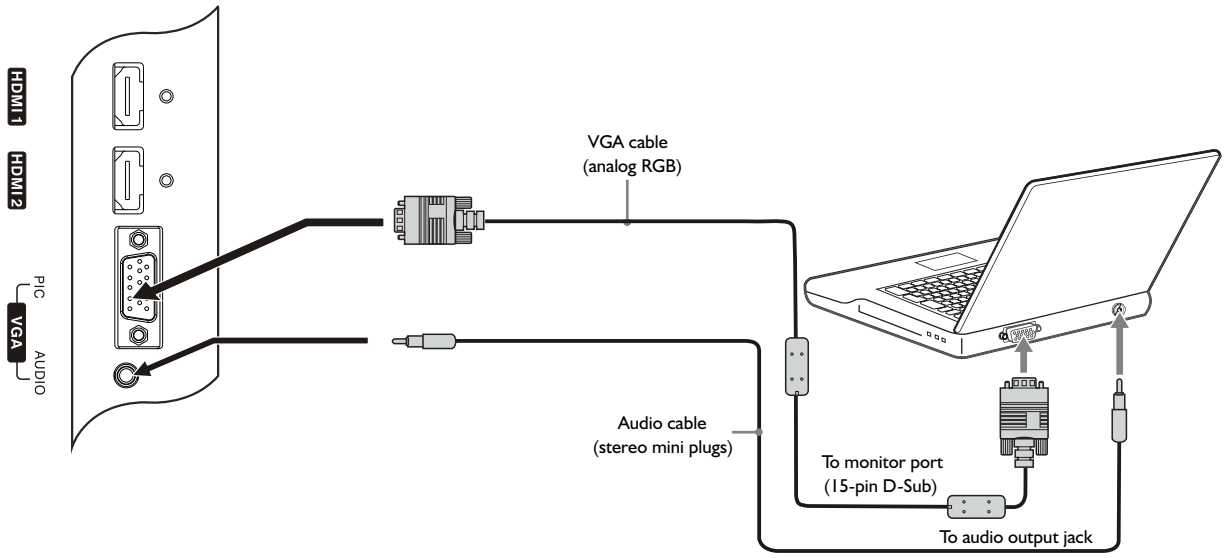
Connect the Audio cable between the AUDIO input jacks on the unit and AUDIO output jacks on the device.

To play component video from an external device:

1. Turn on your TV, then press **SOURCE** button. The **SOURCE** menu opens.
2. Press ▲ or ▼ to select **YPbPr**, then press ▶ to confirm.
3. Turn on your external device and set it to the correct mode. See the device's user guide for more information.

Connections (Continued)

Connecting a Computer



How to connect:

Connect a VGA cable between the VGA jack on the computer and the VGA input jack on the unit.

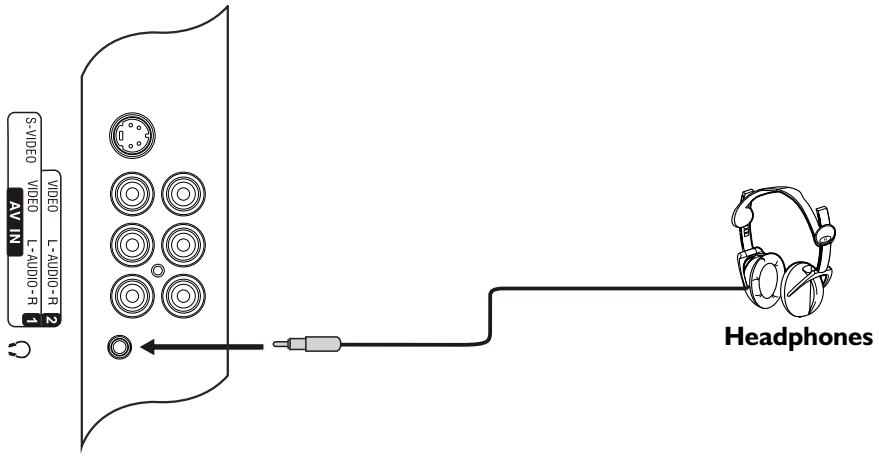
Connect an Audio cable between the AUDIO output on the computer and AUDIO input jack on the unit.

To play video from a computer

1. Turn on your TV, then press **SOURCE** button. The **SOURCE** menu opens.
2. Press ▲ or ▼ to select **VGA**, then press ▶ to confirm.
3. Turn on your computer, and adjust the display properties as required.

Connecting Headphones

Insert the plug of the headphone into the TV's Headphone jack.
When using headphones, adjust the headphone volume so as to avoid excessive levels, as hearing damage may result.



Basic Operations

Turning On/Off the Power

■ Turning On

Insert the power cord into the wall outlet.
Press the **Power Switch** on the unit, then press the **Power** ⏻ button on the unit or on the remote control.
The unit will be turned on and you will be ready to use its features.

Note

- *You can also use **VOL+/-** , **MENU**, **SOURCE** or ⏻ buttons on the TV set to turn on the TV.*

■ Turning Off

With the power on, press the **Power** ⏻ button on the unit or on the remote control to turn off the unit, and put the unit in standby mode.
To cut off the power completely, press the **Power Switch**.

Note

- *If there is no signal input for a certain time, the TV will auto go to standby mode.*

Selecting the Input Signal Source

1 Press **SOURCE** button.

2 Press ▼ or ▲ to select the input source.
Options include:

- **TV** — Watch the TV signal.
- **AV1** — Watch the signal from the AV1 input terminals.
- **AV2** — Watch the signal from the AV2 input terminals.
- **S-Video** — Watch the signal from the S-VIDEO input terminal.
- **YPbPr** — Watch the signal from the COMPONENT input terminals.
- **VGA** — Watch the signal from the VGA jack.
- **HDMI1** — Watch the signal from the HDMI 1 input jack.
- **HDMI2** — Watch the signal from the HDMI 2 input jack.

3 Press ▶ button to confirm the selection.

Note

- *You can also make use of **SOURCE** button on the TV set to select the input source.*

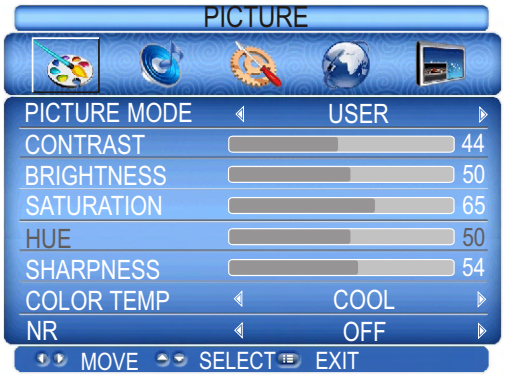
Displaying the Status Information

Press the **DISPLAY** button to display the current status information such as channel number or signal source.

Main Menu Overview (TV mode)

■ List of main menus to help you with operations

PICTURE menu



SOUND menu

FUNCTION menu

TV menu

DISPLAY menu

Note

- *Menu items that are not selectable are grayed out.*
- *The illustrations and on-screen displays in this manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual ones.*
- *The above main menus are illustrated under TV mode. The menus and menu options may vary in different input mode.*

■ To navigate through the OSD main menu

1. With the power on, press **MENU** and the main menu screen displays.
2. Press the ◀ or ▶ to select menu. Press ▼ to access the menu.
3. Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option, press ▶ to enter a sub-menu.
4. Press **MENU** to return to the previous menu. To exit the menu system, press **MENU** repeatedly. Or you may wait for some seconds (the duration depending on your system setting)and the on-screen menu will disappear from the screen automatically.

Note

- *To clearly introduce the menu operations, this operation manual provides a description based on operation with the remote control.*

Memorizing the Channels

When you turn on the TV for the first time, you should perform an auto channel search to set up stations on your TV.
Note: Be sure to select the **TV** source input before operation.

Auto Channel Search

You should perform an auto channel search to search for all channels available and stores them in memory.

1 Press **MENU** and the main menu screen display.

2 Press ◀ or ▶ to select **TV** menu, press ▼ to access.

3 Press ▲ or ▼ to select **AUTO SCAN** item.

4 Press ▶ to begin the auto channel search.
The TV begins memorizing all the channels available in your area.

Note

- *If you want to stop the auto scan, press **MENU** button.*

Manual Channel Search

Use **MANUAL SCAN** if desired channels can not be memorized or if you would like to store programs to specific channel numbers one by one.

1 Select a channel that you want to perform manual search with channel select buttons.

2 Enter into **TV** menu, press ▲ or ▼ to select **MANUAL SCAN** item.

3 Press ▶ to begin the manual channel search.
Press ▶ , the set searches towards higher frequency.
Press ◀ , the set searches towards lower frequency.
The search stops when a program is found and this program will be stored in current channel.

Note

- *If you want to stop the manual scan, press **MENU** button.*

Setting Color/Sound System

Normally it is unnecessary to set color system and sound system. However, if abnormal color or sound occurs, you may try to adjust the color or sound system.

1 Enter into **TV** menu, press ▲ or ▼ to select **COLOR SYSTEM** or **SOUND SYSTEM** item.

2 Press ◀ or ▶ to select a proper color system(normal please select AUTO) or sound system.

3 To exit, press **MENU** button repeatedly.

Memorizing the Channels (Continued)

Manual Fine Tuning

Fine tuning is not necessary under normal conditions. However, in area of inferior broadcast conditions where adjustment is necessary for a better picture and sound, use Fine Tuning.

1 Press **MENU**.

2 Press ◀ or ▶ to select **TV** menu, press ▼ to access.

3 Press ▼ or ▲ to select **CHANNEL EDIT** item, and then press ▶ to access the next level menu.

4 Press ▲ or ▼ to select **FINE TUNING** item.

5 Press ◀ or ▶ to fine tune the channel until the best possible picture and sound are achieved.

6 To exit, press **MENU** button repeatedly.

Note

- *If you perform manual fine tuning, the AFC function will be turned off automatically.*

Auto Frequency Control (AFC)

If picture and sound's effect of the channel is instead poor by making use of Fine Tuning, you can correct them by making use of AFC.

1 Enter into **CHANNEL EDIT** submenu, press ▲ or ▼ to select **AFC** item.

2 Press ◀ or ▶ to select **ON** to turn on **AFC**. To turn off AFC, select **OFF**.

3 To exit, press **MENU** button repeatedly.

Note

- *In **CHANNEL EDIT** submenu, the [FREQUENCY] item will display the current channel's frequency.*

Memorizing the Channels (Continued)

To Skip Unwanted Channels

After memorizing the channels, you can skip unwanted channels so that only the channels you want to watch are selected with Channel up/down buttons.

1 Select the unwanted channel with channel select buttons.
Or navigate to **CHANNEL EDIT** submenu, press ▼ to select **CURRENT CH** item, press ◀ or ▶ to select the unwanted channel.

2 Press ▼ or ▲ to select **SKIP** item.
Press ◀ or ▶ to select **ON** or **OFF**.
If **ON** is selected, then the selected channel will be skipped.
If **OFF** is selected, then the selected channel will not be skipped.

3 If you want to skip other unwanted channels, repeat steps above to change the channel number and set **SKIP** to **ON.**

4 To exit, press **MENU** button repeatedly.

After exiting the menu, the channels will then be skipped when you select programs with the Channel up/down buttons.

Note

- *you can select the skipped channel by pressing the direct channel select buttons.*

Sorting Channels

The Exchange function is for you to arrange channel order as you wish.

1 Select a current channel with channel select buttons.
Or navigate to **CHANNEL EDIT** submenu, press ▼ to select **CURRENT CH** item, press ◀ or ▶ to select a current channel.

2 Press ▼ to select **TARGET CH** item.
Press ◀ or ▶ to select a target channel which is to be exchange with current channel.

3 Press ▼ to select **EXCHANGE** item.
Press ▶ to swap the two programs.

4 Repeat the above steps to sort the proprams.

5 To exit, press **MENU** button repeatedly.

Memorizing the Channels (Continued) & Channel Selection

Setting Favorite Channel

1 Select the channel you want to set as favorite with channel select buttons.
Or navigate to **CHANNEL EDIT** submenu, press ▼ to select **CURRENT CH** item, press ◀ or ▶ to select the desired channel.

2 Press ▼ or ▲ to select **FAVORITE CH** item.
Press ◀ or ▶ to select **ON** or **OFF**.
If **ON** is selected, then the selected channel will be set as your favorite channel. You can repeat the above steps to set more favorite channels so that you can cycle among your favorite channels by pressing the **FAVO.** button.

3 To exit, press **MENU** button repeatedly.

Channel Selection

You can select your desired TV program by one of the following methods.

■ Method 1— Using direct channel select buttons (0 – 9)

Press the **0 – 9** number buttons to input a channel number directly and wait for some seconds, then it will go to the channel.

Note

- *you can select the skipped channel by pressing the direct channel select buttons.*

■ Method 2— Using Channel up/down button

Press the **CH+** or **CH-** to cycle among all available channels. The skipped channels can not be selected by Channel up/down button.

■ Method 3— Using Previous Channel (⇆) button

Press ⇆ to switch to the previously tuned channel.
Press ⇆ again to switch back to the currently tuned channel.

Note

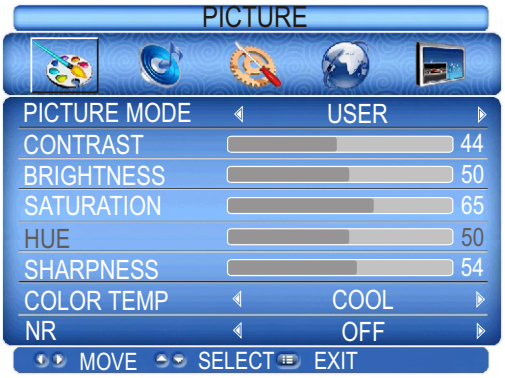
- ***Previous channel*** *button will not work if no channel has been changed after TV is turned on.*

■ Method 4— Using FAVO. button

After you have created your favorite channels, you can press **FAVO.** button to cycle among your favorite channels.

Picture Adjustment

Adjusting the Picture



1 Press **MENU** to display the **PICTURE** menu, and press ▼ to access .

2 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option.

3 To exit, press **MENU** button repeatedly.

Option	*Description*
PICTURE MODE	Selects a desired picture mode. You can select from **NATURE, SOFT, VIVID** and **USER.**
	NATURE: Select for a natural picture.
	SOFT: Select for a finely detailed picture.
	VIVID: Select for a bright and vivid picture.
	USER: The picture quality you set.
Note: *To quickly change the picture mode, press the* ***PICTURE*** *button on the remote control repeatedly.*	
CONTRAST	Adjusts image contrast.
BRIGHTNESS	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.
SATURATION	Adjusts color saturation.
HUE	Adjusts hue for image.
SHARPNESS	Adjusts image sharpness and displays a sharp image.
COLOR TEMP (Color Temperature)	Selects one of three automatic color adjustments. Sets to **WARM** to enhance hotter colors such as red, or set to **COOL** to see less intense colors with more blue. You can select from **COOL**, **WARM** and **NORMAL**.
NR (Noise Reduction)	Selects from **WEAK/MEDIUM/STRONG** to reduce noise in the picture, commonly called snow. Select **OFF** to turn off this function.
Note: *You can quickly press the* ***N.R.*** *button on the remote control to activate the function.*	

Note

The [HUE] item is for NTSC system only.

To Freeze the Picture

Press the **FREEZE** button to freeze the image on the screen(the video sources are still running). Press the button again to reactivate the image.

Note

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

Sound Adjustment

Adjusting the Volume

■ Using the volume buttons (VOL+ and VOL –)

Press the **VOL +** or **VOL-** to increase or decrease the volume.

■ Using the Mute

Press the **MUTE** button to temporarily turn off all sound. To restore the sound, press the **MUTE** button again.

Adjusting the Sound

1 Press **MENU** and the main menu screen displays.

2 Press ◄ or ► to select **SOUND** menu, press ▼ to access the menu.

3 Within the menu, press ▲ or ▼ to navigate through the options, press ◄ or ► to adjust an option. To exit, press **MENU** button repeatedly.

Option	*Description*
SOUND MODE	Selects a desired sound mode. You can select from **NEWS, MOVIE, MUSIC** and **USER.**
	NEWS: Select for a news or conversation program.
	MOVIE: Select for a movie program.
	MUSIC: Select for a music program.
	USER: The sound quality you set.
Note: *To quickly change the sound mode, press the* ***SOUND*** *button repeatedly.*	
BASS	Adjusts Bass (low sounds)
TREBLE	Adjusts Treble (high sounds).
BALANCE	Adjusts volume balance (left and right volumes).
SURROUND	Select **ON** to turn on surround sound effect. Select **OFF** to turn off surround sound effect.
AVC **(auto volume control)**	Select **ON** to equalize overall volume levels across all channels. Select **OFF** to turn off the auto volume control.

Note

The [AVC] item is for TV mode only.

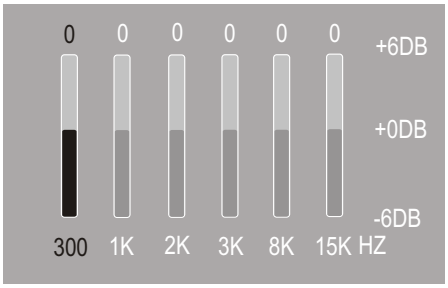
Adjusting Equalizer (Optional function)

Using Equalizer function, you can adjust sound effect and improve sound quality.

1 Enter into **SOUND** menu, press ▲ or ▼ to select **EQUALIZER** item, press ► to access the submenu.

2 Within the menu, press ◄ or ► to select a frequency, press ▲ or ▼ to adjust.

3 To exit, press **MENU** button repeatedly.



System Setup

Setting Sleep Timer

1. Press **MENU** and the main menu screen displays.
2. Press ◀ or ▶ to select **FUNCTION** menu, press ▼ to access the menu.
3. Press ▲ or ▼ to select **SLEEP TIMER** item.
4. Press ◀ or ▶ to select the amount of time before your TV turns off automatically. When the last 1 minute comes, the unit will remind you after how many seconds the set will be turned off. During this period if you do not want the unit to be turned off, press **MENU** button to exit. If the TV loses power, the sleep time will be cleared and must reset. Select **OFF** to turn off sleep timer.
5. To exit, press **MENU** button repeatedly.

Setting Blue Screen

1. Enter into **FUNCTION** menu, press ▲ or ▼ to select **BLUE SCREEN**, then press ◀ or ▶ to turn on/off blue screen.

   If the BLUE SCREEN function is turned on, the TV will display a blue screen when there is no input signal. (Only in TV mode)
2. To exit, press **MENU** button repeatedly.

On-Screen Display Setting

1. Enter into **FUNCTION** menu, press ▲ or ▼ to select **OSD SETTING** item, press ▶ to access the submenu.
2. Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option.
3. To exit, press **MENU** button repeatedly.

Option	*Description*
TRANSPARENCY	Adjusts on-screen menu background transparency.
OSD H.POS	Adjusts on-screen menu's horizontal position.
OSD V.POS	Adjusts on-screen menu's vertical position.
OSD TIME	Selects OSD main menu displaying time.

Setting User Reset

1. Enter into **FUNCTION** menu,press ▲ or ▼ to select **USER RESET**, then press ▶ to open the confirmation box.
2. Press ◀ or ▶ to select **ON**, then press **MENU** to confirm.
   The TV will reset most settings to its original factory condition.
3. To exit, press **MENU** button repeatedly.

Setting Parental Control

Parental Control enables parents to prevent their children from watching inappropriate material on TV.
To use the Parental Control function, you first need to set your password.

To set a password

1 Press **MENU** and the main menu screen displays.

2 Press ◀ or ▶ to select **FUNCTION** menu, press ▼ to access the menu.

3 Press ▲ or ▼ to select **PARENT CONTROL** item, then press ▶ to access. Now a password is required to input.

4 Press **0 – 9 number** buttons to input the password(4-digit, the default password is 0000 and you should change it). Now **PARENT CONTROL** menu opens.

5 Highlight **CHANGE PIN** item, press ▶ to access.

6 Enter the new password using 0 – 9 buttons.

7 Enter the same password again to confirm.
Now the new password has been created successfully.

Note

- To avoid forgetting the password, write it down and keep it in the safe place.
- If you do forget the password, you may use master password (2580) to access the PARENT CONTROL menu and set a new password. Do not let children know it.

Setting Key Lock

1 Use password to access **FUNCTION-PARENT CONTROL** menu.

2 Press ▲ or ▼ to select **KEY LOCK** item, then press ◀ or ▶ to select **On** or **Off**.

When the **KEY LOCK** is turned **ON**, buttons on the control panel on the main unit are not active. To restore, please set the **KEY LOCK** to **OFF**.

3 Press **MENU** to return to previous menu. Press **MENU** repeatedly to clear the menu screen.

Setting Parental Control (Continued)

Setting Source Lock

1 Use password to access **FUNCTION-PARENT CONTROL** menu.

2 Press ▲ or ▼ to select **SOURCE LOCK** item, then press ◀ or ▶ to select **On** or **Off**.

When the **SOURCE LOCK** is turned **ON**, other sources except TV are locked. To restore, please set the **SOURCE LOCK** to **OFF**.

3 To exit, press **MENU** button repeatedly.

Locking TV Channels

1 Use password to access **FUNCTION-PARENT CONTROL** menu.

2 Press ▲ or ▼ to select **CHN CTRL** item, then press ◀ or ▶ to select **On**.

3 Press ▼ to select **CHN SELECT** item, then press ◀ or ▶ to select the channel you want to lock.

4 Press ▼ to select **BLOCK SELECT** item, then press ◀ or ▶ to select **ON**.

5 Repeat the above steps 3&4 to lock other channels.

6 Press **MENU** repeatedly to clear the menu screen.
The channel control comes into effect when you switch to the locked channel.

Note

- **CHN SELECT** and **BLOCK SELECT** are adjustable only when **CHN CTRL** is set to **ON**.
- When **CHN CTRL** is **ON**, **TV** menu and **DISPLAY** menu can not be operated.
- To unlock TV channels, simply set **CHN CTRL** to **OFF**.

Image Display Adjustments

Adjusting Image Display

1 Press **MENU** and the main menu screen displays.

2 Press ◀ or ▶ to select **DISPLAY** menu, press ▼ to access the menu.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option. To exit, press **MENU** button repeatedly.

Option	*Description*
ZOOM	Selects the aspect ratio (display proportions) according to your video signal type or personal preference. You can select from **ZOOM**, **PANORAMA**, **NORMAL**, **FULL**.
	ZOOM: Enlarges the picture, the top and bottom portions may be cropped.
	PANORAMA: Enlarges the picture to fill the 16:9 screen and at the same time still maintains a good aspect ratio at the center of the screen.
	NORMAL: Selects the correct aspect ratio to match the source's image.
	FULL: Displays a full-screen picture.
Note: *You can press the* ***ZOOM*** *button repeatedly to select a desired aspect ratio.*	
MAG.G	Turns on the magic picture demo function and selects a mode to demo magic picture. You can select from **OFF**, **H-SPLIT**, **MOVE**, **ZOOM**.
	OFF: To turn off magic picture function.
	H-SPLIT: Displays the magic picture in a split screen.
	MOVE: Displays a moving magic picture on the screen.
	ZOOM: Displays the magic picture which will become larger gradually.
Note: *To quickly select, press the* ***S.MAGIC*** *button on the remote control repeatedly.* *The MAG.G function is recommended to used in shopping mall demonstration. In household, please turn off this function.*	

Note

- Menu items that are not selectable are grayed out.

Image Adjustments for VGA(PC) Mode

Before adjusting the image, make sure that you select the correct source (VGA).

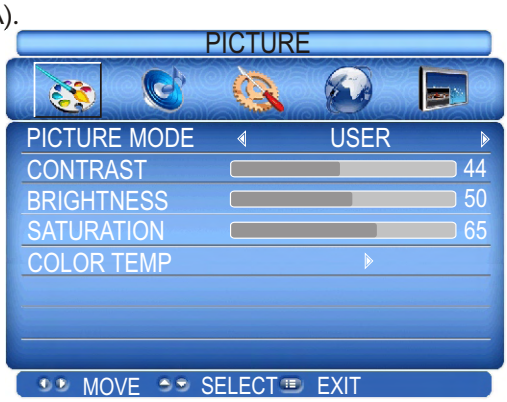
To Adjust the PC Image

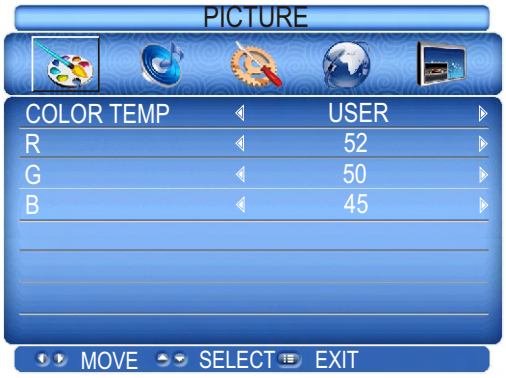
1 In VGA mode, press **MENU** to display the **PICTURE** menu, and press ▼ to access .

2 Within the menu, press ▲ , ▼ , ◀ , ▶ to navigate through the options or adjust an option.

3 If you want to customize the color temperature, highlight **COLOR TEMP**, then press ▶ to access the sub-menu. Set **COLOR TEMP** to **USER** and now you can adjust the colors R, G and B of the image separately.

4 To exit, press **MENU** button repeatedly.





Option	*Description*
PICTURE MODE	Selects a desired picture mode. You can select from **NATURE, SOFT, VIVID** and **USER.**
Note: *To quickly change the picture mode, press the* ***PICTURE*** *button on the remote control repeatedly.*	
CONTRAST	Adjusts image contrast.
BRIGHTNESS	Adjusts screen brightness for easier viewing of dark picture such as night scenes and black hair.
SATURATION	Adjusts color saturation.
COLOR TEMP (Color Temperature)	Selects color temperature. Sets to **WARM** to enhance hotter colors such as red, or set to **COOL** to see less intense colors with more blue, or set to **NORMAL** to get normal color. You can also select the **USER** color temperature and now you can adjust the colors RED, GREEN and BLUE of the image separately.

Image Adjustments for VGA(PC) Mode (Continued)

Adjusting Image Display

1 In VGA mode, Press **MENU** and the main menu screen displays.

2 Press ◀ or ▶ to select **DISPLAY** menu, press ▼ to access the menu.

3 Within the menu, press ▲, ▼, ◀, ▶ to navigate through the options or adjust an option.

4 To exit, press **MENU** button repeatedly.

Option	*Description*
ZOOM	Select the aspect ratio (display proportions) according to your video signal type or personal preference. You can select from **ZOOM**, **PANORAMA**, **NORMAL**, **FULL**.
Note: *You can press the* ***ZOOM*** *button repeatedly to select a desired aspect ratio.*	
H.POSITION	Moves the image on the screen left or right.
V.POSITION	Moves the image on the screen up or down.
H SIZE	Adjusts the horizontal width of the image on the screen.
PHASE	Improves the focusing of a stable image.
AUTO ADJUST	Selects and activates to start auto adjustment. The set automatically adjusts the image settings, such as position and phase.
Note: *You can directly press the* ***ADJUST*** *button on the remote control to start auto adjustment.*	

Troubleshooting

If, after reading these operating instructions, you have additional questions related to the use of your television, please call the services center in your local area.
Before calling service, please check the symptoms and follow suggested solutions.

Remote Control

Problem	*Possible Solutions*
Remote control does not operate	• The batteries could be weak. Replace the batteries. • Check the orientation of the batteries. • Make sure the power cord is plugged in.

Video and Audio

Problem	*Possible Solutions*
No picture (screen not lit), No sound	• Make sure the power cord is plugged in. • Press POWER on the TV or on the remote control. • Try another channel; it could be station trouble.
Dark, poor or no picture (Screen lit), good sound	• Select a proper picture mode. • Adjust the brightness in the video setting. • Check the antenna/cable connections.
No color/dark picture/color is not correct	• Adjust the color saturation in the video setting.
Only snow and noise appear on the screen	• Check the antenna/cable connections. • Try another channel; it could be station trouble.
Dotted lines or stripes	• Adjust the antenna. • Move the TV away from noise sources such as cars, neon signs, or hair dryers.
Double images	• Using a highly directional outdoor antenna or a cable may solve the problem.
Good picture, no sound	• The sound may be muted. Press MUTE again to cancel.
Audio noise	• Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Move the infrared communication equipment away from the TV until the noise is eliminated.

Troubleshooting (Continued)

General

Problem	*Possible Solutions*
One or some channels can't be displayed	• These channels may be locked. Please lock them (see <Setting Parental Control> section). • These channels may be set skipped. You may set it to not skipped or select them with 0-9 number buttons.
Lost password	• You may use the master password (2580)to access the Parent Control menu and set a new password. Please remember your new password and keep it carefully.
Some items can't be accessed	• If a setting option appears in gray, this indicates that the settings option is unavailable in current input mode.
TV cabinet creaks	• When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction.
Control buttons do not operate	• Disconnect the power cord and wait for a few seconds. Then re-plug the power cord and turn on the unit again.

Note

If your problem is not solved, turn your unit off and then on again.

Cautions:

Never attempt to repair a defective TV yourself.

Specifications

Power Supply:	AC100-240V 50/60Hz
Power Consumption:	150W
Screen:	81cm
Dimensions(mm):	808 (W) X 609(H) X 297(D)
Unit Weight(kg):	18

TV system & channel coverage

System	VHF	UHF	CATV
PAL-B/G	2-12	21-69	X~Z+2, S1~S41

TV system: PAL BG, NTSC(AV)

Note

1. Design and specifications are subject to change without notice.
2. Weight and dimensions shown are approximate.
3. Specifications and external appearance may be changed for the sake of improvement.

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